JUL 10 REC'D SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800 Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511. Priority Application Date Your Name Examiner # Phone In what format would you like your results? Paper is the default. PAPER **EMAIL** If submitting more than one search request form, please prioritize the searches in order of need. Meed Where have you searched so far on this case? Circle: USPT **DWPI** EPO Abs JPO Abs IBM TDB Other: What relevant art have you found so far? Please attach citations or Information Disclosure Statements. What types of references would you like? Please checkmark: Nonpatent Literature ____ Primary Refs Teaching Refs Secondary Refs -Foreign Patents Other Is this a "Fast & Focused Search" request? (Circle One) YES A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

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Online Time: has		

Reconnected in file 2 21jul06 10:25:35

2:INSPEC 1898-2006/Jul W2

File

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Set
        Items
                Description
        17699
                ACTIVE AND PASSIVE
S1
S2
       445062
                CHIP? ? OR MICROCHIP? ? OR MICRO () CHIP? ? OR DIE OR DIES
             OR SUBSTRATE? ? OR WAFER? ?
S3
      1025008
                INTRA OR SAME OR WITHIN
                INTRACHIP? ? OR INTRADIE? ? OR INTRAWAFER? ? OR INTRASUBST-
S4
          122
             RATE? ?
S5
                INTRA () CHIP? ? OR INTRA () DIE? ? OR INTRA () WAFER? ? OR
              INTRA () SUBSTRATE? ?
        79151
S6
                PAD OR PADS OR WIRE () BONDING? ? OR INTERCONNECTION? ? OR
             INTER () CONNECTION? ?
S7
         3576
                ELECTRICAL ?? () CONNECT???? OR CONNECT???? () POINT? ?
S8
          596
                S2 (3N) S3 AND S6
S9
           10
                S8 AND S1
S10
          329
                S4 OR S5
S11
        82332
                S6 OR S7
S12
          118
                S10 AND S11
S13
            2
                S12 AND S1
S14
           10
                S13 OR S9
S15
       462067
                TRANSISTOR? ? OR DIODE? ? OR AMPLIFIER? ? OR SWITCH??
S16
       305020
                INDUCTOR? ? OR CAPACITOR? ? OR RESISTOR? ? OR FILTER? ? OR
             DIPLEXER? ?
S17
          137
                (S15 OR S16) AND (S8 OR S12)
S18
           18
                S17 AND (ACTIVE OR PASSIVE)
S19
            8
                S17 AND WIRE () BOND????
S20
            8
                S19 NOT S14
S22
          523
                (S2 (2N) S3) AND S6
S23
           65
                (S2 (2N) S3) AND S1
S24
           56
                S23 NOT (S9 OR S19)
S25
           48
                S24 AND PY=1985:2004
S26
           22
                S24 AND PY=1999:2004
S27
           26
                S25 NOT S26
S28
       118842
                WIRE () BOND???? OR WIRE OR WIRING? ? OR WIRES OR WIRED
S29
         7272
                S2 (2N) S3
S30
         7359
                S29 OR S4 OR S5
S31
          227
                S30 AND S28
S33
           58
                S31 AND (S1 OR S15 OR S16)
S34
           51
                S33 NOT (S24 OR S14 OR S19)
S35
           21
                S34 AND PY=1995:2004
S36
                S31 AND S1 AND S15 AND S16
           0
S37
            8
                S31 AND (S1 OR (S15 AND S16))
S38
           4
                S37 NOT (S24 OR S14 OR S19)
S39
          419
                S28 (3N) (ACTIVE OR PASSIVE)
S40
                S39 AND S15 AND S16
          17
S41
           17
                S40 NOT (S24 OR'S14 OR S19 OR S38)
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Reconnected in file OS 26jul06 11:41:02

S13

SYSTEM:OS - DIALOG OneSearch
File 34:SciSearch(R) Cited Ref Sci 1990-2006/Jul W3
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
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2 S12 AND (INTRA OR SAME OR WITHIN)

Set	Items	Description
S1	16770	ACTIVE AND PASSIVE
S2	494704	CHIP? ? OR MICROCHIP? ? OR MICRO () CHIP? ? OR DIE OR DIES
	OR	SUBSTRATE? ? OR WAFER? ?
S3	57	INTRACHIP? ? OR INTRADIE? ? OR INTRAWAFER? ? OR INTRASUBST-
	RA	TE? ?
S4	49	INTRA () CHIP? ? OR INTRA () DIE? ? OR INTRA () WAFER? ? OR
	I	NTRA () SUBSTRATE? ?
S5	158449	TRANSISTOR? ? OR DIODE? ? OR AMPLIFIER? ?
S6	31561	INDUCTOR? ? OR CAPACITOR? ? OR RESISTOR? ? OR DIPLEXER? ?
s7	1	S1 AND S2 AND (S3 OR S4)
S8	2	(S3 OR S4) AND S5 AND S6
S9	2	S8 NOT S7
S10	1	S1 AND (S3 OR S4)
S11	0	S1 AND S2 AND S3 AND S4
S12	20	S1 AND S2 AND S5 AND S6





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1. <u>TOC.doc</u> [PDF-237K]

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Mehandru, Rishabh., Jan 2004

Thesis (Ph. D.)--University of Florida, 2004. Title from title page of source document. Document formatted into pages; contains 174 pages. Includes vita. Includes bibliographical references.

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3. <u>Microsoft PowerPoint - EE7356-05 IC manufactureing [PDF-11K]</u> Sep 2004

...VLSI design and lab 21 Intra-Layer Design Rule Origins...Active active areas on/in substrate (poly gates, transistor...VLSI design and lab 25 Intra-Layer Design Rules Metal2...Inverter Layout A A' n p-substrate Field Oxide p+ n+ In Out...removal Economical: Cheap The chip is assembled into a package...contact leads for the chip. A wire-bonding machine attaches wires...VLSI design and lab 34 Flip-Chip Bonding Solder bumps Substrate...

[http://engr.smu.edu/~pgui/class_notes_pdf/EE7356-05%20...] similar results

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...source and drain regions and **substrate** contacts Create contact...p-epi (a) Base material: p+ **substrate** with p-epi layer N p+ p-epi...Electrical Engineering **Intra**-Layer Design Rules Metal2...Layer 1 3 3 2 2 2 Well **Substrate** Select 3 5 Department of...Electrical Engineering **Bonding** Techniques Lead Frame **Substrate** Die Pad **Wire Bonding** Department of Computer...Electrical Engineering **Flip-Chip Bonding** Solder bumps **Substrate**...

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bonding")

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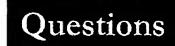
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Searched for::

:All of the words:wire-bond AND (passive AND active AND substrate) AND ("electronic packaging") AND ('

Found::

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1. Switchmode Power Supply Miniaturization with Emphasis [PDF-332K]

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...Emphasis on Integrated Passive Components on Prefired High Performance Ceramic Substrates by Richard W. Hoagland... Emphasis on Integrated Passive Components on Prefired High...work. Thick film passive components (capacitors and... more hits from [http://scholar.lib.vt.edu/theses/available/etd-081999-...] similar results

2. Japan Jisso Technology Roadmap 1999 [PDF-939K]

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...components (semiconductors, passive components, and printed wiring boards...products, semiconductor devices, passive components, and printed wiring boards...components (semiconductors, passive components, printed wiring boards),

[http://www.sematech.org/docubase/document/3950beng.pdf] similar results

3. Tummala.layout [PDF-43K]

Dec 1999

...ext-generation electronic packaging must be consistent...been mostly passive containers...generation in electronic packaging education...DIPs) and wire bond in the 1970s...miniaturization of passive components (Fig. 4...1999) 113 ELECTRONIC PACKAGING RESEARCH...integration of passive and optoelectronic...types of active and passive components to 1 type...connection Wire bond Wire bond... more hits from [http://techdigest.jhuapl.edu/td2001/Tummula.pdf] similar results

4. Adv. Micro., Jan/Feb 2004, Vol. 31 #1 - Complete Magazine Download [PDF-146K]

...M Miiiiccccrrrrooooeeeelllleeeecccctttrrrroooonnnniiiccccssss Microelectronics Inside the Multichip Module, Hybrid, Electronic Packaging and Surface Mount Industries Published by IMAPS - International Microelectronics And Packaging Society & Sidney J.

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5. New Online Submission Process for Transactions Papers [PDF-99K] Sep 2001

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